

The contest is to see which group can make an Alka Seltzer react fastest.

You are provided with the following materials:

- beaker of cold water
- beaker of hot water
- balloon
- 125ml conical flask
- one holed bung
- Alka- Seltzer tablets (3)
- pestle and mortar
- measuring cylinder

Rules:

- Everyone must use 50ml of water in the conical flask
- Timing will begin from the time the Alka Seltzer enters the flask and lasts for exactly two minutes.
- At the end of two minutes the balloon must be pinched off and tied.
- The winner will be the group that has made the reaction go the fastest over the two minute interval
- If there is any doubt about who has won , the class must devise a way to measure the size of the balloon, largest volume wins.

Critical Thinking:

1. What are the factors did your group **consider** when deciding how to make the reaction go as fast as possible.
2. What did you **do** to make the reaction go faster.
3. For each of the action you took state why you think it made the reaction go faster.
4. How could you find out which factor had the biggest effect on the reaction rate?